

Message

From: McCord, James [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=MCCORD, JAMES]
Sent: 4/23/2018 11:22:45 AM
To: Newton, Seth [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ea2ecc1d228a4c4682730a829e1d0718-Newton, Set]; Lindstrom, Andrew [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=04bf7cf26aa44ce29763fbc1c1b2338e-Lindstrom, Andrew]; Washington, John [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fdc3e8ce9f1d45c4894881ff420ca104-Washington, John]
CC: Strynar, Mark [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5a9910d5b38e471497bd875fd329a20a-Strynar, Mark]
Subject: RE: HPFCAs in NJ soil samples

I only ran the 100 calibration point for a positive control since I didn't anticipate wanting to quantify from the TOF samples.

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James McCord

From: Newton, Seth
Sent: Thursday, April 19, 2018 3:20 PM
To: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; McCord, James <mccord.james@epa.gov>; Washington, John <Washington.John@epa.gov>
Cc: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: RE: HPFCAs in NJ soil samples

Andy – I know we have some of the 1H substituted standards but I'm not sure which ones. I'll find them and possibly make a calibration curve for some of the compounds.

As to why these compounds are showing up in this sample and only this sample, I have no idea.

James – Did you run the calibration curve on the TOF with all the other samples? I see "Cal100" but no others.

Seth

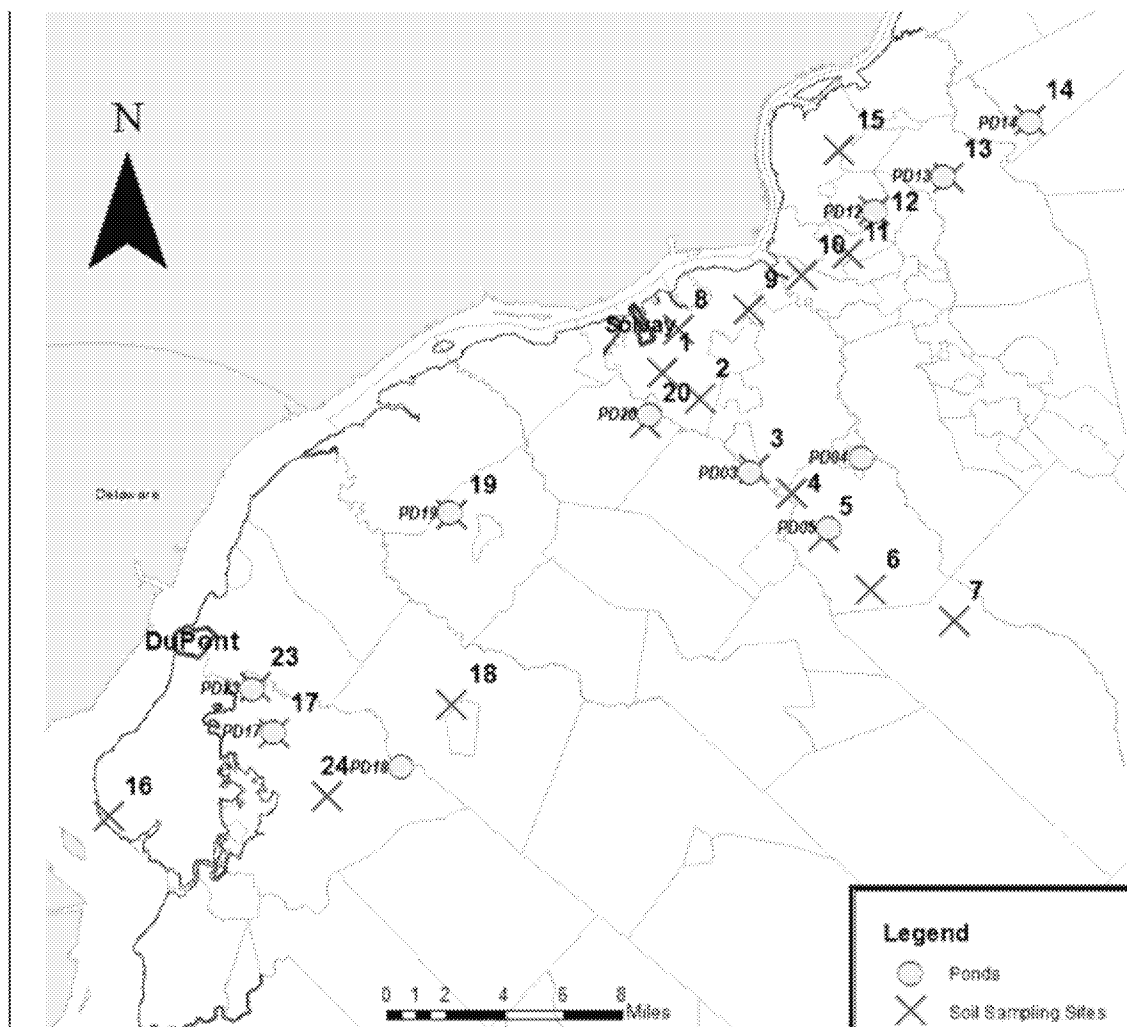
From: Lindstrom, Andrew
Sent: Thursday, April 19, 2018 2:48 PM
To: Newton, Seth <Newton.Seth@epa.gov>; McCord, James <mccord.james@epa.gov>; Washington, John <Washington.John@epa.gov>
Cc: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: RE: HPFCAs in NJ soil samples

Seth,

PFSNW004 is Pond 4 (PD04) in the figure below. It was selected to represent a surface water sample that was not influenced by possible inputs from the Delaware River and should represent potential airborne inputs from Solvay. Any guess as to the concentration of the 1H substituted compound(s) you see here?

Erica will be sending a complete list of sample sites and GPS coordinates for the entire project soon.

Andy



From: Newton, Seth

Sent: Tuesday, April 17, 2018 10:39 AM

To: McCord, James <mccord.james@epa.gov>; Washington, John <Washington.John@epa.gov>

Cc: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>

Subject: RE: HPFCAs in NJ soil samples

Hi all,

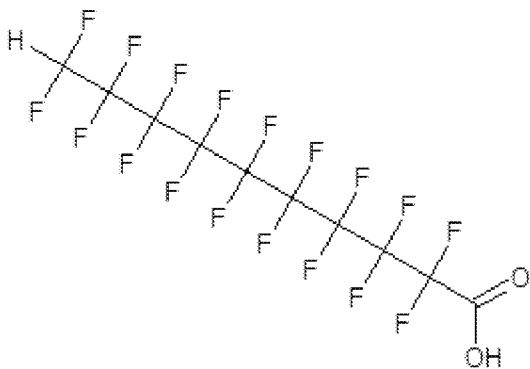
Sorry if I'm chiming in late here; I was off Friday and yesterday.

We see C8-C13 1-H substituted perfluorinated carboxylic acids. As James mentioned, there is a background level from our vial caps but at least one sample is significantly greater than background - PFNSW004. I'm still very unclear about how the sampling locations correspond to the sampling codes so I don't know if this sample is close to Solvay or not. James or John? Do you know where this sample is located?

We have seen these compounds before in Decatur, Alabama where we mostly saw 1-H substituted C7. We got some standards for them and I believe James was able to confirm that the hydrogen was on the terminal carbon.

In, New Jersey, 1-H substituted C10 was the largest in peak among this series of "HPFCAs", followed by C11, C12, C13, C9, and finally C8. There is some evidence of C7 but it is not so much higher than the blank samples. For comparison, the maximum peak area of 1-H substituted C10 is almost as large as the maximum PFNA peak we observed across all samples (however these maximum peak areas are not from the same sample).

Just to be clear, here is the structure of 1-H substituted C10:



Seth

From: McCord, James

Sent: Monday, April 16, 2018 11:27 AM

To: Washington, John <Washington.John@epa.gov>; Newton, Seth <Newton.Seth@epa.gov>

Cc: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>

Subject: RE: HPFCAs in NJ soil samples

We are seeing the 1-H perfluorinated series in the non-targeted results. Do note that we see a portion of these in many samples because they contaminate some of our LC vial caps. However, the NTA data should indicate that we are seeing concentrations in excess of any background contamination. I haven't looked at any per-sample data to know if there are visible distributions.

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James McCord

From: Washington, John

Sent: Monday, April 16, 2018 10:31 AM

To: Newton, Seth <Newton.Seth@epa.gov>

Cc: Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>; McCord, James <mccord.james@epa.gov>

Subject: HPFCAs in NJ soil samples

Hey Seth,

Andy told me you might be seeing HPFCAs in New Jersey water samples. As chance would have it, the tandem MS method I ran for the NJ legacy compounds also had transitions for several HPFCAs – I had developed the method to run the NH chars/soils. So I just looked at one NJ soil sample from close to Solvay, sample 8. In the attached there seems to be detects of several HPFCAs at low levels.

Do your sample detections suggest as source for your detects? Solvay? Some other geographic source? Still uncertain?

The soil sample 8 I attach here, probably having low levels of HPFCAs, was quite high in the perfluoroethers.

John